



## Blast 2 Sequences results

PubMed

Entrez

BLAST

OMIM

## Taxonomy

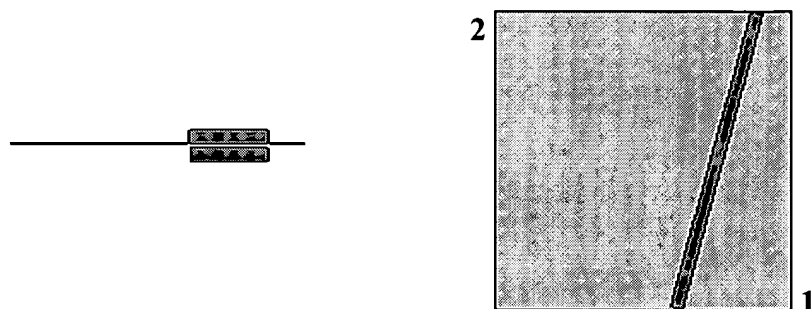
## Structure

**BLAST 2 SEQUENCES RESULTS VERSION BLASTN 2.2.10 [Oct-19-2004]**

Match:  Mismatch:  gap open:  gap extension:   
x dropoff:  expect:  wordsize:  Filter ☒ Align ☐

**Sequence 1** gi\_144864 C.botulinum neurotoxin gene, complete cds. **Length** 4835 (1 .. 4835)

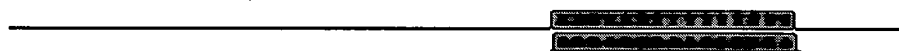
**Sequence 2 lcl|seq 2**

**Length** 1323 (1 .. 1323)

NOTE: The statistics (bitscore and expect value) is calculated based on the size of nr database

**NOTE:**If protein translation is reversed, please repeat the search with reverse strand of the query sequence

Score = 412 bits (214), Expect = e-111  
Identities = 937/1302 (71%)  
Strand = Plus / Plus



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Query: 3007 gaaagtaatcattttaatagacttatctagggtatgcatcaaaaataaatattggtagtaaa 3066  
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Sbjct: 196 atcgaagttaatcctgaagaatgctatcgatatacaactctatgtacgaaaacttctccacc 255

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Gapped

Lambda	K	H
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 Number of extensions: 6  
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 Number of HSP's better than 10.0 without gapping: 1  
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X2: 26 (50.0 bits)  
X3: 26 (50.0 bits)  
S1: 13 (25.7 bits)  
S2: 22 (43.0 bits)

NCBI Nucleotide

PubMed Nucleotide Protein Genome Structure PMC Taxonomy OMIM Books

Search  for

Limits Preview/Index History Clipboard Details

Range: from  to  ☐ Reverse complemented strand Features: ☐ SNP

☐ CDD ☒ MGC ☐ HPRD ☐ STS

☐ 1: [M30196](#). Reports *C.botulinum* neuro...[gi:144864] [Links](#)

LOCUS CLONEUR 4835 bp DNA linear BCT 26-APR-1993

DEFINITION *C.botulinum* neurotoxin gene, complete cds.

ACCESSION M30196

VERSION M30196.1 GI:144864

KEYWORDS neurotoxin.

SOURCE *Clostridium botulinum*

ORGANISM *Clostridium botulinum*  
Bacteria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae;  
Clostridium.

REFERENCE 1 (bases 1 to 4835)

AUTHORS Binz,T., Kurazono,H., Wille,M., Frevert,J., Wernars,K. and  
Niemann,H.

TITLE The complete sequence of botulinum neurotoxin type A and comparison  
with other clostridial neurotoxins

JOURNAL J. Biol. Chem. 265 (16), 9153-9158 (1990)

PUBMED 2160960

COMMENT Original source text: *C.botulinum* (strain 62A, subtype A) DNA.  
Draft entry and computer-readable sequence for [1] kindly submitted  
by H.Niemann, 29-NOV-1989.

FEATURES

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misc\_feature

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/note="potential terminator; putative"

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//

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Feb 9 2005 14:31:10

NCBI Nucleotide

PubMed Nucleotide Protein Genome Structure PMC Taxonomy OMIM Books

Search  for

Limits Preview/Index History Clipboard Details

Range: from  to  ☐ Reverse complemented strand Features: ☐ SNP

☐ CDD ☒ MGC ☐ HPRD ☐ STS

☐ 1: [M30196](#). Reports *C.botulinum* neuro...[gi:144864] [Links](#)

LOCUS CLONEUR 4835 bp DNA linear BCT 26-APR-1993

DEFINITION *C.botulinum* neurotoxin gene, complete cds.

ACCESSION M30196

VERSION M30196.1 GI:144864

KEYWORDS neurotoxin.

SOURCE *Clostridium botulinum*

ORGANISM *Clostridium botulinum*  
Bacteria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae;  
Clostridium.

REFERENCE 1 (bases 1 to 4835)

AUTHORS Binz,T., Kurazono,H., Wille,M., Frevert,J., Wernars,K. and  
Niemann,H.

TITLE The complete sequence of botulinum neurotoxin type A and comparison  
with other clostridial neurotoxins

JOURNAL J. Biol. Chem. 265 (16), 9153-9158 (1990)

PUBMED 2160960

COMMENT Original source text: *C.botulinum* (strain 62A, subtype A) DNA.  
Draft entry and computer-readable sequence for [1] kindly submitted  
by H.Niemann, 29-NOV-1989.

FEATURES

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misc feature

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/note="potential terminator; putative"

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